

What Is Claimed Is:

1. A pressure-effectuated interconnection of a metal part and a plastic part slid over the metal part with a press fit, in particular in a fuel injector for internal combustion engines,

wherein circumferential ribs (34 through 36) are formed on the outer wall of the metal part, which are arranged one behind the other in the axial direction and each have a back (37) which rises from the outer wall toward the outside in a slide-on direction (33) of the plastic part, and a flank (38) which sharply falls from the back end toward the outside wall, and an annular groove (39) is located in front of each rib (34 through 36) viewed in the slide-on direction of the plastic part, which is introduced into the outer wall directly at the foot of the back (37).

2. The pressure-effectuated interconnection as recited in Claim 1,

wherein the projection height of the ribs (34 through 36) beyond the outer wall of the metal part, viewed transversely to the slide-on direction (33), increases from rib to rib in the slide-on direction (33) of the plastic part.

3. The pressure-effectuated interconnection as recited in Claim 1 or 2,

wherein the metal part and the plastic part have a cylindrical form, and the inner diameter of the plastic part is slightly larger than the outer diameter of the metal part.

4. The pressure-effectuated interconnection as recited in Claim 3,

wherein the metal part is a valve body (22) of a fuel valve, preferably a fuel injector, and the plastic part is a base element (24), made of plastic, of a fuel filter (23), which covers the inflow opening (29) of at least one fuel inflow duct (27) formed in the valve body (22) by a filter mesh (26).

5. A fuel valve, in particular a fuel injector, for internal combustion engines, having a cylindrical valve body (22), having at least one fuel inflow duct (27) which is formed in the valve body (22) and an inflow opening (29) situated in the cylinder wall; and a fuel filter (23) which is retained by a press fit and has a hollow-cylindrical base element (24) made of plastic and filter mesh (26) which is embedded in the base element (24) and covers the inflow openings (29),
wherein the base element (24) of the fuel filter (23) is hollow-cylindrical and designed to be slid over the valve body (22); circumferential ribs (34, 35, 36) are disposed on the cylinder wall (221) of the valve body (22), one behind the other in the axial direction, the ribs each having a back (37) which rises from the cylinder wall (221) towards the outside in the slide-on direction (33) of the fuel filter (23); and a flank (38) which steeply falls from the back end to the cylinder wall (221); each rib (324, 35, 36) having disposed in front of it an annular groove (39) in the slide-on direction (33) of the fuel filter (23), which is introduced into the cylinder wall (221) of the valve body (22) directly at the foot of the back (37).

6. The fuel valve as recited in Claim 5,
wherein the radial projection height of the ribs (34, 35, 36) beyond the cylinder wall (221) increases from rib to rib in the slide-on direction (33) of the fuel filter (23).
7. The fuel valve as recited in Claim 5 or 6,
wherein the inner diameter of the base element (24) of the fuel filter (23) is slightly larger than the outer diameter of the valve body (22).
8. The fuel valve as recited in one of Claims 5 through 7,
wherein the base element (24) of the fuel filter (23) has a number of traversing wall openings (25), each of which is sealed by a filter mesh (26).
9. The fuel valve as recited in one of Claims 5 through 8,
wherein a valve housing (21) is situated on top of the valve body (22) and connected thereto in a fluid-tight manner, the valve housing (21) enclosing the base element (24) of the fuel filter (23) with a radial clearance allowing the flow of fuel.